MEMORANDUM FOR: All NWS Regional Headquarters, Regional
Maintenance Specialists, Electronic Systems
Analysts, and Electronics Technicians
[Engineering Handbook (EHB)-13, Series II
distribution]

FROM: W/OPS1 - John McNulty

SUBJECT: Transmittal Memorandum for EHB-13 Series II,
Issuance 02-03

1.   <u>Material Transmitted:</u>

Engineering Handbook No. 13 Series II, Advanced Weather
Interactive Processing System (AWIPS), section 3.1, AWIPS
Software Installation Instruction Note 25, Maintenance
Release 5.1.2.1

2.   <u>Summary:</u>

AWIPS Software Installation Instruction Note 25, provides
instructions to download and install maintenance release
5.1.2.1.

3.   <u>Effect on Other Instructions:</u>

File this note in EHB-13, Series II, section 3.1. Discard
all previous software installation instructions in
section 3.1.

AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 25
(for Electronic Systems Analysts)
Maintenance, Logistics, & Acquisition Division
W/OPS1: FJZ

SUBJECT : Maintenance Release 5.1.2.1.

PURPOSE : This release installs three patches.

PATCH NUMBER : P512_SEC_A100174

AUTHORIZATION : The authority for this modification note is Request for Change AA497

AFFECTED SITES : All AWIPS Release 5.1.2 sites must install this maintenance release.

VERIFICATION STATEMENT : The Release 5.1.2.1 installation procedures were tested and verified at WFO Wakefield, VA (AKQ), WFO Taunton, MA (BOX), WFO Buffalo, NY (BUF), Pacific Region HQ (PBP), and Eastern Region HQ (VUY).

PREINSTALLATION: REQUIREMENTS : R5.1.2 must be installed prior to installing this maintenance release.

TIME REQUIRED : Approximately 15 minutes

SECURITY LEVEL : root

TECHNICAL SUPPORT : For questions or problems regarding these installation instructions or installing this Release, please contact the NCF at 301-713-9344**.**

GENERAL

The summary of R5.1.2.1 fixes are as follows:

- Corrects problem causing "ifpServer" to stop handling requests (DR #9313)
- Fixes wind chill algorithm (DR #10011)
- Corrects installation of "wwaPush" executable for use on DS1 and DS2 (DR #10013)

R5.1.2.1 detailed description are as follows:

- Corrects problem causing "ifpServer" to stop handling requests (DR #9313). Corrects "RPC AUTH ERROR" received by clients when the "ifpServer" stops handling requests. This error can be seen in the logs for "ifpServerWatcher", "gfe", and "ifpInit" processes. At that time, restarting the server is required.
- Fix wind chill algorithm (DR #10011). Wind chill algorithm was inadvertently broken by changes introduced to "calcHeatIndex.c." These changes were not necessary and have been withdrawn.
- Correct installation of "wwaPush" executable for use on DS1 and DS2 (DR #10013). For intersite coordination to function properly, the "wwaPush" executable is required on DS1 and DS2.

PROCEDURE

A. **Maintenance Release download and ds1 Installation Procedure**

NOTE: PRC has pushed the "R5.1.2.1.tar.Z" file to the "/data/local/R5.1.2.1" directory at each AWIPS site.

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1. At a workstation, open a telnet window and log into ds1 as **root** by typing:

   rlogin ds1-<site> -l root

2. Change to the "/data/local/R5.1.2.1" directory by typing:

   cd /data/local/R5.1.2.1

3. Start the output script log by typing:

   script -a R5.1.2.1.out

4. Uncompress the release bundle by typing:

   zcat R5.1.2.1.tar.Z | tar xvf -

5. Run installation script by typing:

   ./installR5.1.2.1

6. Stop the output script by typing:

   ./stopscript

This completes the maintenance release download and installation procedure.
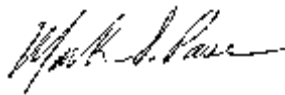
B. Post Installation Configuration Checkout

Check for any files that may not have been removed/copied correctly (Look for any "cannot write: Text file busy" messages. If present, file will have to be manually removed/copied)

```
=>     grep busy R5.1.2.1.out
```

REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record, according to the instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and Appendix I. A sample WS Form A-26 is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Upgrade AWIPS Software to R5.1.2.1 I.A.W. AWIPS Software Installation Instruction Note 25
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Upgraded AWIPS System Software to R5.1.2.1 I.A.W. AWIPS Software Installation Instruction Note 25
17a	Mod. No.	S25

John McNulty
Chief, Maintenance, Logistics, and Acquisition Division

Attachment A - WS Form A-26 Sample

Attachment A

WS FORM A-26 (4/94)	WS FORM A-26 (4/94)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	Document Number
		ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD		**G 49978**

General Information	**1.** Open Date **1/ 21 / 02**	Time **0900**	**2.** Initials **JMM**	**3.** Response Priority (check one) ○ Immediate ○ Low ○ Routine ☒ Not Applicable	**4.** Close Date **1/ 21 / 02**	Time **1000**

5. Description	**Install AWIPS Maintenance Release 5.1.2.1 I.A.W. AWIPS Software Installation Instruction Note 25**

Equipment Information	**6.** Station ID **FFC**	**7.** Equipment Code **AWIPS**	**8.** Serial Number **001**	**9.** TM **M**	**10.** AT **M**	**11.** How Mal. **999**

12. *EQUIPMENT OPERATIONAL STATUS TIMES*	**a.** Fully Operational	**b.** Logistics Delay	Partly Operational	**c.** All Other	**d.** Logistics Delay	Not Operational	**e.** All Other

13. *Parts Failure Information* | **14.** *Work Load Information*

Block #	**a.** ASN	**b.** NSN	**c.** TM	**d.** AT	**e.** How Mal.	**f.** Qty.	**g.** Maint. Hrs.	Type	Staff Hrs.
1								**a.** Routine	
2								**b.** Non-routine	
3								**c.** Travel	
4								**d.** Misc.	**1:00**
5								**e.** Overtime	

Miscellaneous Information	**15.** Maintenance Comments **Upgraded AWIPS System Software by installing Maintenance Release 5.1.2.1, I.A.W. AWIPS Software Installation Note 25**	**16.** Initials **JMM**

17. *SPECIAL PURPOSE REPORTING*	**a.** Mod. No. **S25**	**b.** Mod./Act./Deact.Date **1/21/02**	**c.**	**d.**	**e.**

18. *CONFIGURATION MGMT. REPORTING* (use as directed)	ASN	Vendor Part Number (New Part)	Serial Number (Old Part)	Serial Number (New Part)

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